

WHAT IS CLAIMED IS:

1. An infusion set comprising:

a base having upper and lower sides, a base cannula extending downwardly from the lower side, and a port extending upwardly from the upper side, the port being in fluid communication with the base cannula, and the port comprising a septum adapted to seal said port from fluid communication therethrough;

an adhesive layer mounted to the lower side of the base;

an introducer cap adapted to be pressed against the upper side of the base and removably attached to the base, the introducer cap comprising upper and lower sides, and a needle extending downwardly from the lower side, the needle being adapted to extend through the septum on the upper side of the base and through the base cannula on the lower side of the base, whereby the attached base and introducer cap are adapted to be pressed against a patient's skin such that the introducer needle pierces the skin and the adhesive layer on the lower side of the base contacts the skin;

an infusion cap comprising an upper side and a lower side, the infusion cap being adapted to be pressed against the upper side of the base and removably attached to the base after disengagement of the introducer cap from the base, the infusion cap being adapted to rotate with respect to the base while engaged, the infusion cap comprising an infusion cannula extending downwardly from the lower side of the infusion cap, and an elongate flexible lumen in fluid communication with the infusion cannula, the infusion cannula being adapted to extend through the septum on the upper side of the base upon engagement of the infusion cap and the base to place the flexible lumen and the infusion cap in fluid communication with the base cannula.

2. The infusion set of Claim 1, wherein the introducer cap includes at least one generally flat surface to facilitate grasping the cap.

3. The infusion set of Claim 2, wherein the introducer cap includes at least two generally flat surfaces to facilitate pinching the cap to change its shape to allow the cap to be removably engaged with the base.

4. The infusion set of Claim 3, wherein the base includes a funnel-shaped portion located between the port and the cannula.

5. The infusion set of Claim 4, wherein the funnel-shaped portion is located between the septum and the cannula.

6. The infusion set of Claim 1, wherein the introduction cap and the infusion cap both include a substantially cylindrical portion adapted to surround the port on the base when engaged therewith to help secure the caps to the base.

7. The infusion set of Claim 1, wherein the infusion cap has a low-profile substantially dome-shaped upper side:

8. An infusion set comprising:

a generally circular base having upper and lower sides, a base cannula extending downwardly from the lower side, a port extending upwardly from the upper side, and a retaining rim, the port being in fluid communication with the base cannula, and the port comprising a septum at or near an upper side thereof, the septum adapted to seal the port from fluid communication therethrough;

a generally dome-shaped introducer cap adapted to removably engage with the upper side of the base, the introducer cap comprising upper and lower sides, and a needle extending downwardly from the lower side, the introducer cap adapted to be deformed such that at least a portion of the introducer cap may be passed over the retaining rim on the base and then returned to its original shape to secure the introducer cap to the base, the needle being adapted to extend through the septum on the upper side of the base and through the base cannula on the lower side of the base, whereby the engaged base and introducer cap are adapted to be pressed against a patient's skin such that the introducer needle pierces the skin and the base is in close proximity to the skin;

a low-profile, dome-shaped infusion cap comprising an upper side and a lower side, the infusion cap being adapted to removably engage with the upper side of the base after disengagement of the introducer cap from the base, the infusion cap being adapted to rotate with respect to the base while engaged, the infusion cap comprising an infusion cannula extending downwardly from the lower side of the infusion cap, and an elongate flexible lumen in fluid communication with the infusion cannula, the infusion cannula being adapted to extend through the septum on the upper side of the

base upon engagement of the infusion cap and the base to place the flexible lumen and the infusion cap in fluid communication with the base cannula.

9. The infusion set of Claim 8, wherein the introducer cap includes at least one generally flat surface to facilitate grasping the cap.

10. The infusion set of Claim 9, wherein the introducer cap includes at least two generally flat surfaces to facilitate pinching the cap to change its shape to allow the cap to be removably engaged with the base.

11. The infusion set of Claim 10, wherein the base includes a funnel-shaped portion located between the port and the cannula.

12. The infusion set of Claim 11, wherein the funnel-shaped portion is located between the septum and the cannula.

13. The infusion set of Claim 8, wherein the introduction cap and the infusion cap both include a substantially cylindrical portion adapted to surround the port on the base when engaged therewith to help secure the caps to the base.